## **ATTACHMENT A**

## **DRAFT MANAGEMENT PLAN**

## Proposed Marshall Creek Wildlife Management Area

## **INTRODUCTION**

Montana Fish, Wildlife and Parks (FWP) proposes to purchase fee-title ownership of lands to establish the 24,170-acre Marshall Creek Wildlife Management Area (WMA). This draft management plan discloses FWP's management intent for public review and comment, and for documenting existing information for future reference. This document conveys interim management policies and strategies for the property while the long term management plan is developed.

#### Goals:

- Permanently protect and restore critical native fish and wildlife habitat;
- Provide perpetual public access to lands with high and diverse public recreation values:
- Maintain landscape connectivity between the Bob Marshall/Scapegoat and Mission Mountain wildland complexes;

#### I. ACQUISITION DATE

FWP proposes to acquire the property in two phases beginning in the fall of 2010, pending public review and approval.

#### II. CHAIN OF OWNERSHIP

Plum Creek Timber Company Timber (PCTC) is the current landowner. The subject parcel is under contract for sale to The Nature Conservancy (TNC) and The Trust for Public Land (TPL) as part of the 310,000-acre Montana Legacy Project. TNC/TPL plans to acquire the property in November 2010. FWP proposes to purchase a portion of the Marshall Creek WMA from TNC/TPL soon after and purchase the remainder of the property in the spring of 2011when additional federal grant funds become available. Upon project completion, TNC/TPL will retain no title to or encumbrance on any portion of the property.

#### III. PROPERTY DESCRIPTION

#### **Location:**

The land lies in the upper Clearwater drainage of the Blackfoot watershed, approximately 5 miles northwest of the community of Seeley Lake in Missoula County. The property includes all or part of the West Fork Clearwater River, Marshall Creek, Deer Creek, Uhler Creek, and the North Fork of Placid Creek (Figure 1).

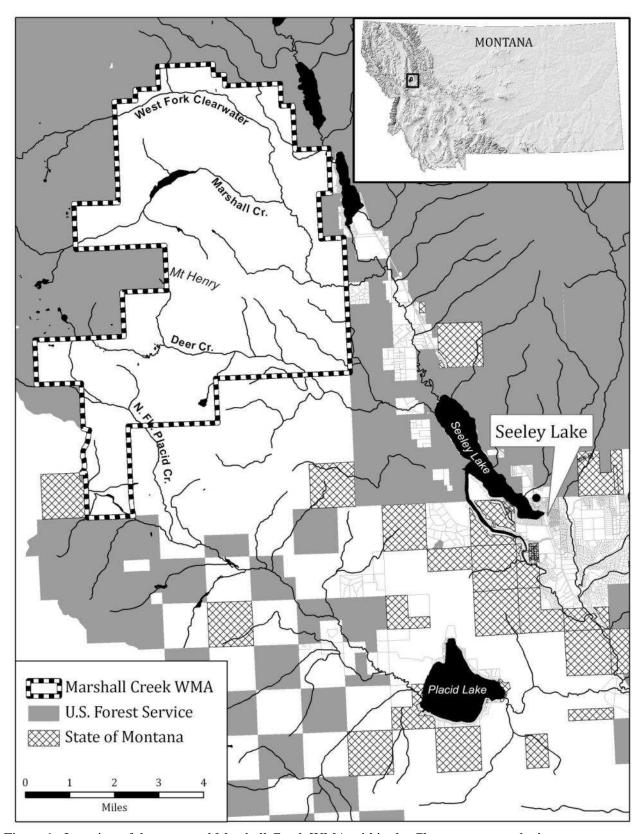


Figure 1. Location of the proposed Marshall Creek WMA within the Clearwater watershed.

#### **Acreage Deeded:**

Marshall Creek WMA would encompass 24,170 contiguous acres. There are no in-holdings within the proposed WMA boundary.

Missoula County: T17N, R16W Sections 1-4, 8-21, 30, and 31

T17N, R17W Section 13

T18N, R16W Sections 14-17, 20-23, 25-29, and 31-36

## **Acreage Leased:**

There would be no leased acres associated with the WMA.

#### IV. LANDFORMS AND DRAINAGE

The West Fork Clearwater River, Marshall Creek, Uhler Creek, and Deer Creek run roughly east from their high elevation sources to their confluences with the main stem Clearwater River and lakes system. The North Fork of Placid Creek runs south to its confluence with the main stem of Placid Creek. The 81-acre Lake Marshall, fed by Marshall Creek, lies in the northwest portion of the property. Elevations on the property range from 2400 feet near the lower West Fork Clearwater River to over 6600 feet at the summit of Mt. Henry in the center of the property. As part of a large, undeveloped forested corridor--surrounded by large tracts of undeveloped public and private land--the property provides links to the Bob Marshall/Scapegoat and Mission Mountains wildland complexes.

## V. <u>VEGETATION</u>

The property is almost completely forested (Table 1). Stands consist of boreal spruce-fir types in addition to Douglas fir and lodgepole pine types on the drier aspects. Previous owners have commercially harvested timber on the property for more than 50 years and most stands are in some stage of regeneration. In addition, 2,230 acres in the southern portion of the property burned in the Jocko Lakes wildfire of 2007. In the past, extensive re-planting occurred following harvest; western larch was preferred in both re-planting and seed-tree retention treatments. Understories tend to be complex and often consist of conifer (spp.), huckleberry (spp.), alder, false huckleberry, snowbrush, willow, serviceberry, mountain-lover, beargrass, and true grasses.

Riparian corridors are generally intact along stream courses throughout the property. Riparian plant communities typically consist of mixed conifer stands with alder and willow dominated understories.

## **Land Use:**

Past commercial use of the property was almost exclusively for timber harvest. Livestock grazing has not occurred in recent times. The property is highly valued for recreation, including hunting, fishing, snowmobiling, hiking, camping, and sightseeing. The US Forest Service (and the public wanting to access Forest Service land) uses selected roads to access its ownerships adjacent to the property. This use is managed under cost-share road agreements which would be re-negotiated with FWP following purchase.

## **Vegetation Condition:**

Most upland stands have been subject to timber harvest within the last 50 years and are in some stage of regeneration. Riparian buffers were generally maintained along perennial streams by

limiting harvest of timber. Harvest treatments of uplands varied, but included even-age harvest, shelterwood cuts, seed-tree retention harvest, and selective harvest (both helicopter and skid/cable). Re-planting and selection favored western larch; this species now predominates many stands. The property is generally very productive and regeneration is relatively rapid.

Table 1. Summary of cover types and their approximate acreage amounts based upon land-

cover mapping completed by FWP staff.

Level 1 Cover Type	Acres	% Cover
Forest and Woodland	16,271	66.9
Transitional Vegetation	4,331	17.8
Shrubland and Grassland	3,476	14.3
High Montane	164	0.7
Open Water	81	0.3
	24,323	100.0
Level 2 Cover Type	Acres	% Cover
Western North America Cool Temperate Forest	12,323	50.7
Harvested Forest	4,331	17.8
Western North America Flooded and Swamp Forest	3,948	16.2
Vancouverian and Rocky Mountain Grassland and Shrubland	3,431	14.1
Western North America Alpine Scrub, Forb Meadow and Grassland	164	0.7
Open Water	81	0.3
Shrubland and Grassland	22	0.1
Western North America Freshwater Marsh	22	0.1
North American Bog and Fen	1	0.0
	24,323	100.0

## Weeds and Forest Pathogens:

Noxious weed infestations on the property are limited and primarily consist of spotted knapweed that occurs along road shoulders. Knapweed is more prevalent on the southern portion of the property that burned in 2007 but still largely associated with the road system. Missoula County Weed District is preparing a weed management plan for the property that will help FWP direct weed treatments over time.

Bark beetle (spp.), budworm, and other forest pathogen infestations are limited on the property. Most stands are early-to-mid seral and less susceptible species such as larch, subalpine fir, spruce, and deciduous species currently dominate.

### VI. EXCEPTIONAL HABITAT QUALITIES

The proposed Marshall Creek WMA property lies within the *Tier 1* (most crucial) *Blackfoot River Aquatic Focus Area* and the *Tier 1 Mission/Swan Valleys & Mountains Terrestrial Focus Area* as identified in Montana's Comprehensive Fish and Wildlife Conservation Strategy (CFWCS, 2005). The property provides habitat for over 150 native species, including > 30 CFWCS *Tier 1* and *Tier 2 Species of Greatest Conservation Need.* The mid-elevation mesic forests on the property are extremely productive and contain relatively scarce mid-elevation

boreal forest types. The property is uniquely located between two of the largest wildland complexes in Montana and is mostly surrounded by protected public land; the property serves as a critical connective corridor between these large blocks of conservation land. In addition, the property itself is exceptional habitat for federally *Threatened* Canada lynx, contains significant federally designated Recovery Area for *Threatened* grizzly bear populations, and is critical spawning and rearing habitat for a unique adfluvial life form of federally *Threatened* bull trout populations. The property contains the most crucial, currently unprotected Canada lynx habitat in the western US and is designated *Lynx Critical Habitat* by the USFWS.

The property lies within a matrix of protected lands managed by the US Forest Service (USFS) and the Confederated Salish and Kootenai Tribes. Recent research findings (wolverine, lynx, and grizzly bears in particular), FWP strategic conservation assessments, and independent movement corridor analyses have all identified the property as lying within a crucial corridor connecting the Bob Marshall/Scapegoat and Mission Mountains wildland complexes. Conservation of the property will also maintain habitat connectivity along the Mission Mountains connecting the Swan Valley, the Rattlesnake Wilderness, and Bitterroot mountain ecosystem.

#### Fisheries and Wildlife:

The property supports three federally ESA-listed species--grizzly bear, Canada lynx, and bull trout--as well as candidate species including fisher, wolverine, and westslope cutthroat trout. Important populations of bull trout spawn in the property's streams. Many bull trout have a unique adfluvial (lake-migrant) life history. The property also has resident and migratory populations of westslope cutthroat trout. Westslope cutthroat trout populations have high genetic purity (generally < 1% rainbow trout contribution). There are also regionally important populations of western pearlshell mussels, a Montana Species of Concern. The property is heavily used by grizzly bears and Canada lynx.

The property provides high-quality and highly valued hunting opportunity for elk, white-tailed deer, mule deer, moose, black bear, mountain lion, wolf, furbearers, and mountain grouse. It also supports a wide array of fish and wildlife Species of Concern in Montana and the nation. A partial list of fish and wildlife species and species of concern known or expected to occur on the property are included in Appendices A and B.

## VII. RECREATION

The property has historically been open to public use for hunting, fishing, camping, hiking, snowmobiling, sightseeing, and other activities and this access is highly valued. Under FWP ownership, recreational access to and through the property would be maintained and managed similar to current practices.

#### VIII. IMPROVEMENTS AND DEVELOPMENTS

The property would be conveyed in a single contiguous block without in-holdings. Several roads are subject to easements or cost-share maintenance agreements with PCTC or the USFS. The only commercial development on the property is a single microwave tower on West Fork Point; an access easement to the tower carries with the deed, but FWP does not assume a lease or liability for the tower. Many improvements (primarily associated with the road system) come with the property including roads, bridges, and water control structures.

#### MANAGEMENT OVERVIEW

Management of the Marshall Creek WMA would be for the enhancement and protection of native fish and wildlife populations, the habitat that supports them, and for the provision of public recreational access. FWP's Fish and Wildlife Division would direct management at the Regional level with program direction from the Fisheries and Wildlife Bureaus. Public access would be provided to the extent that such access is compatible with vegetation, fish and wildlife goals. Vegetation management (including commercial timber harvest, prescribed fire, and riparian vegetation restoration) or other land use practices may be prescribed if needed to enhance the fish and wildlife values of the property. FWP would cooperate with adjoining landowners on noxious weed management, fence maintenance, historic and necessary road access, and other issues common to the local community. In the near term, FWP expects recreation management to maintain the *status quo* pending ongoing field assessments. FWP expects to contract for a comprehensive forest inventory and forest management plan in 2011. Forest restoration and management activities will be prioritized, based on identified need and available resources.

Stream and watershed restoration will be an emphasis on the property, with prioritization of projects based on ongoing inventories and the needs of native fish species. Restoration activities will primarily focus on mitigating or eliminating impacts of the extensive road network on water quality, natural stream function and riparian integrity.

#### I. PUBLIC ACCESS AND USE

- Marshall Creek WMA will be open to public use year-round for motorized travel on open roads, snowmobiling, hunting, fishing, camping, hiking, horseback riding, mountain bicycling, and general enjoyment.
- Wheeled motorized vehicles will be restricted to the designated open road system (no wheeled motorized vehicles allowed off roads or on closed roads) year-round. Currently, approximately 37 miles of the 290 miles of road on the proposed WMA are open to wheeled motorized use (Figure 2); the open road system will initially be similar to that existing at time of purchase. FWP is conducting a detailed assessment of road condition, sediment delivery and drainage, and administrative need; results of this assessment will guide future decisions about road access, removal, and/or upgrading. FWP will continue to maintain open road density below 1mi./1mi.² to protect grizzly bear security cover.
- Snowmobiling will be allowed throughout the WMA but will be restricted to designated open roads 4/1 11/30. FWP will continue to cooperate with the Seeley Lake Driftriders, the USFS, and PCTC to maintain and enhance the groomed snowmobile trail system.
- Camping will be allowed year-round but limited to a 14-day maximum stay (motorized vehicles restricted to the road shoulder or pullouts). Fire restrictions may be implemented, as wildfire-risk dictates.
- Consistent with past and current use-patterns, use of non-motorized watercraft will be emphasized on Lake Marshall.
- Firewood cutting will be restricted to downed trees that lie outside riparian areas and will only be allowed by FWP-issued permit.

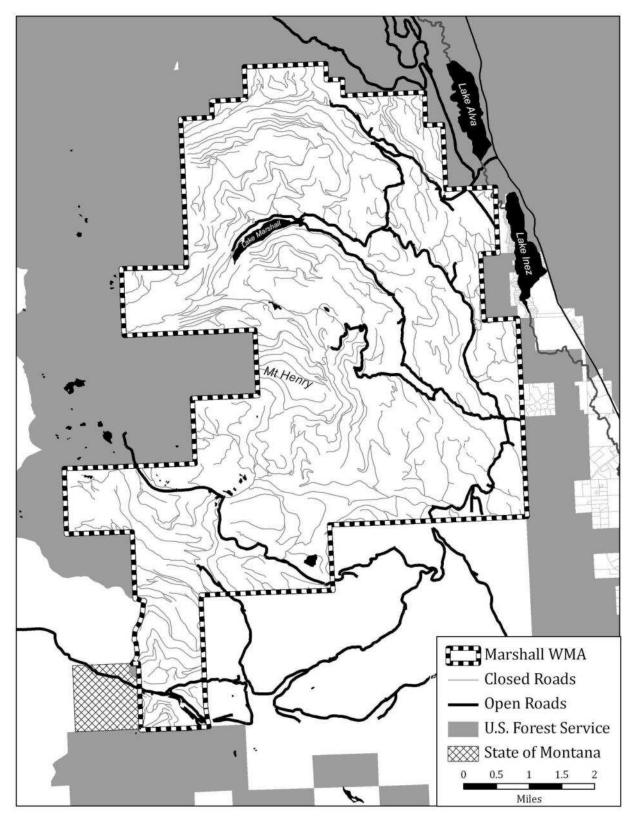


Figure 2. Roads on the proposed Marshall Creek WMA currently open and closed to wheeled motorized travel.

- Permits will be required for use by groups of more than 15 people.
- Hunting opportunity will be managed consistent with that in the surrounding hunting districts (i.e. deer/elk Hunting District 285); no Marshall Creek WMA-specific hunting regulations are anticipated. Fishing and trapping opportunities will be managed consistent with current Montana regulations.

#### **Issues:**

- o Road maintenance to reasonably support public travel and ongoing property management will constitute a significant and recurring expense. The maintenance standard for open roads will be to reasonably accommodate a 4-wheel drive vehicle with good ground clearance and to limit significant sediment delivery to streams. This standard is now generally met on the open road system, but will require regular maintenance.
- Much of the open road system has historically been managed under cost-share agreements with the US Forest Service. FWP will renegotiate these agreements (which provide for shared road access and maintenance liability) following transition of ownership.
- Roads and culverts are currently being inspected for compliance with Best Management Practices (BMPs) and compatibility with fish and wildlife habitat values; any noncompliance or resource needs will be corrected on a prioritized basis.
- o Maintenance of gates and barriers will be required to restrict motorized vehicle access to the closed road system.
- o Signage will be required at the main access points to communicate the public access and other regulations on the WMA.
- o Boundary signage will be needed to identify the WMA property line in some places.
- Hardcopy brochures and FWP website updates will need to be prepared to communicate regulations and provide basic road maps for the public.

#### II. FISHERIES MANAGEMENT

Fisheries management concerns on the property consist of: (1) maintaining and improving the Lake Marshall sport fishery through stocking of westslope cutthroat trout, monitoring, and adjustment of harvest regulations, and (2) protection and restoration of stream and riparian habitats that are vital for native trout spawning and rearing. Streams on the property provide limited sport fisheries for trout, but primarily serve as nursery areas for migratory native trout populations and other sensitive species. No fishing regulation changes are currently proposed on the property.

#### III. WATERSHED RESTORATION NEED

The Marshall Creek WMA contains three primary tributary stream drainages: West Fork Clearwater River, Marshall Creek and Deer Creek. Despite high road densities and disturbance associated with past land management, the abundance of bull trout, westslope cutthroat trout and other sensitive species is an indication of the high water quality and relatively intact habitat in these watersheds.

To further enhance stream habitat and aquatic populations, restoration work will focus on improving selected aspects of the road system to reduce: (1) chronic sediment inputs, (2) failure risk of culverts and water management features on roads, and (3) impacts of road encroachment on stream corridors. A few locations will also require replacement or removal of stream crossings to enhance connectivity for migrating fish and promote natural stream processes. Ongoing assessments of the road system will facilitate completion of a prioritized watershed restoration projects list. These projects would be completed after acquisition as funding allows.

## IV. LIVESTOCK GRAZING

The WMA property does not have a recent history of livestock grazing and no grazing leases are associated with the property. FWP will only consider allowing livestock grazing in the future if it is intended to enhance or restore habitat condition for fish and wildlife.

## V. NOXIOUS WEED MANAGEMENT

Noxious weed management would be conducted in accordance with the Montana Weed Management Plan (2008). The Missoula County Weed District will conduct a field assessment of the property and work with FWP to develop a Weed Management Plan by fall 2010.

Currently, weed infestations are largely limited to road shoulders and other disturbed sites. Spotted knapweed is the predominant noxious weed species on the property. Spotted knapweed is somewhat more widespread in the southern portion of the property burned in the 2007 Jocko Lakes fire.

Any isolated patches of early invading species will be eradicated by the most efficient and effective means (e.g., hand-pulling, digging or herbicide spot treatment), depending on weed species and site limitations. Roadsides will be inspected annually for the purpose of detecting and eradicating any new weed introductions before infestations become established. FWP's priority for herbicide control of noxious weeds on the subject lands will be to spray roadsides and recent logging landings, skid trails, and other disturbed sites.

Roadside spraying and annual inspections (with spot eradications) are important strategies to prevent new weed establishments and spread. As an additional preventive measure, FWP will confine public wheeled motorized traffic to the open road system and will otherwise work to limit disturbance of the soil surface.

Livestock feed brought onto the property will be required to be certified weed-seed free.

## VI. FOREST MANAGEMENT

Most of the subject parcel has been actively managed for commercial timber production during the last 50 years. Recruiting and maintaining forest stands of the highest value for fish and wildlife will guide future management of the property. Specific forest management objectives will be:

1. Enhance and restore mature forested riparian stands to secure movement corridors for wildlife, provide optimum shading of steams, woody debris recruitment to channels, and to maximize sediment filtering. The provision of cool, clean and connected stream

corridors for the benefit of native fish will drive the management of forested riparian stands.

- 2. Recruit, enhance, and maintain multistoried, mature, mesic and boreal forest stands where they do or could occur on the WMA.
- 3. Maintain visual screening between existing and future forest management units adjacent to open roads.
- 4. Diversify the species and age composition of re-planted and regenerating stands to increase wildlife habitat values and more closely approximate the range of historic species/age stand composition.
- 5. Mitigate the risk of wildfire by managing fuel loads immediately adjacent to neighboring homes and established escape routes.

These management objectives will be met through a mix of both passive and active (commercial and non-commercial) management. FWP will use revenue from forest management activities for stewardship of its forested properties.

#### VII. FIRE PREVENTION AND SUPPRESSION

Fire suppression on the Marshall Creek WMA will fall under existing jurisdictions, which currently is Montana Department of Natural Resources and Conservation (DNRC) protection. Wildfires would be subject to immediate suppression upon detection. In an attempt to prevent human-caused ignitions, FWP and DNRC may institute temporary measures to progressively restrict open campfires and public access to the property if and as summer-fall fire danger intensifies in some years.

Prescribed fire may be used as a wildlife habitat enhancement tool and for managing fuels in the forest understory, but only with public notice and in close coordination with DNRC, the US Forest Service, neighboring landowners and local fire management organizations.

#### VIII. GOOD NEIGHBOR

- FWP would develop and maintain effective working relationships with neighboring landowners.
- Priority would be placed on addressing and responding to matters of signage, weed control, road maintenance, fuels mitigation, recreational-use management, and coordinated wildfire protection.

#### IX. MAINTENANCE BUDGET

Following is a preliminary annual maintenance budget for the proposed Marshall Creek WMA:

**ROADS:** There are approximately 37 miles of the current open road system is in relatively good condition; FWP estimates open road and road closure maintenance costs to be approximately \$21,000 per year with special maintenance and improvement projects funded on a case-by-case basis. Most administratively closed roads would be managed to reduce sediment delivery to streams and to facilitate future property management activities. FWP is assessing sediment delivery mitigation needs; the extent of those needs and associated remediation costs are unknown. Projects to mitigate issues

with road and water control structure condition will be prioritized and implemented following the completion of the assessment. Road closure maintenance costs would decrease yearly as property management activities were completed.

**WEED CONTROL**: FWP estimates \$6,920/year for weed control (primarily road-side herbicide treatments).

**SIGNAGE:** Signage costs will be highest during the first years of ownership and could exceed \$20,000. After this time, FWP would only need to maintain informational, boundary, and road closure signs. Annual costs are expected to be less than \$2,040 per year.

**TAXES:** Will be approximately \$18,720/year, 5 year cost = \$93,600.

**FIRE PROTECTION:** Property is under MT DNRC fire protection. The annual assessment for fire protection will be approximately \$6,050/year.

Funding for ongoing operations and maintenance of the Marshall Creek WMA is expected to come from a combination of fish and wildlife license sales revenue, the Habitat Montana Program, and State funds set aside at purchase consistent with the Good Neighbor Policy (87-1-209, MCA).

FWP is also actively investigating additional sources of funds to support operations and maintenance activities on this (proposed) and other WMAs. One option FWP is evaluating is the potential to sell credits for carbon sequestration on the proposed Marshall Creek WMA property. FWP has begun evaluating this potential opportunity and, if we determine that it is feasible and consistent with habitat, public recreation, and timber management goals, then FWP may propose a future action to sell carbon credits in existing markets. Any such action proposed in the future would go through a separate decision-making process that complies with all relevant legal and public scoping requirements.

# APPENDIX A. Marshall Creek WMA Species List

Common Name	Scientific Name	State Rank
Am	phibians - 6 Species	<u>.</u>
Columbia Spotted Frog	Rana luteiventris	S4
Long-toed Salamander	Ambystoma macrodactylum	S4
Northern Leopard Frog	Rana pipiens	S1,S4
Pacific Treefrog	Pseudacris regilla	S4
Rocky Mountain Tailed Frog	Ascaphus montanus	S4
Western Toad	Bufo boreas	S2
B	Birds - 183 Species	
American Bittern	Botaurus lentiginosus	S3B
American Coot	Fulica americana	S5B
American Crow	Corvus brachyrhynchos	S5B
American Dipper	Cinclus mexicanus	S5
American Goldfinch	Spinus tristus	S5B
American Kestrel	Falco sparverius	S5B
American Pipit	Anthus rubescens	S4B
American Redstart	Setophaga ruticilla	S5B
American Robin	Turdus migratorius	S5B
American Three-toed Woodpecker	Picoides dorsalis	S4
American Wigeon	Anas americana	S5B
Bald Eagle	Haliaeetus leucocephalus	S3
Bank Swallow	Riparia riparia	S5B
Barn Swallow	Hirundo rustica	S5B
Barred Owl	Strix varia	S4
Barrow's Goldeneye	Bucephala islandica	S4
Belted Kingfisher	Megaceryle alcyon	S5B
Black-backed Woodpecker	Picoides arcticus	S3
Black-billed Magpie	Pica hudsonia	S5
Black-capped Chickadee	Poecile atricapillus	S5
Black-chinned Hummingbird	Archilochus alexandri	S4B
Black-headed Grosbeak	Pheucticus melanocephalus	S5B
Black Swift	Cypseloides niger	S1B
Blue-winged Teal	Anas discors	S5B
Bobolink	Dolichonyx oryzivorus	S3B
Bohemian Waxwing	Bombycilla garrulus	S5N
Boreal Chickadee	Poecile hudsonicus	S3
Boreal Owl	Aegolius funereus	S4
Brewer's Blackbird	Euphagus cyanocephalus	S5B
Brown Creeper	Certhia americana	S3

	1	
Brown-headed Cowbird	Molothrus ater	S5B
Bufflehead	Bucephala albeola	S5B
Bullock's Oriole	Icterus bullockii	S5B
Calliope Hummingbird	Stellula calliope	S5B
Canada Goose	Branta canadensis	S5B
Canvasback	Aythya valisineria	S5B
Canyon Wren	Catherpes mexicanus	S4
Cassin's Finch	Carpodacus cassinii	S3
Cedar Waxwing	Bombycilla cedrorum	S5B
Chestnut-backed Chickadee	Poecile rufescens	S4
Chipping Sparrow	Spizella passerina	S5B
Cinnamon Teal	Anas cyanoptera	S5B
Clark's Nutcracker	Nucifraga columbiana	S3
Cliff Swallow	Petrochelidon pyrrhonota	S5B
Common Goldeneye	Bucephala clangula	S5
Common Loon	Gavia immer	S3B
Common Merganser	Mergus merganser	S5B
Common Nighthawk	Chordeiles minor	S5B
Common Raven	Corvus corax	S5
Common Redpoll	Acanthis flammea	S5N
Common Yellowthroat	Geothlypis trichas	S5B
Cooper's Hawk	Accipiter cooperii	S4B
Cordilleran Flycatcher	Empidonax occidentalis	S4B
Dark-eyed Junco	Junco hyemalis	S5B
Downy Woodpecker	Picoides pubescens	S5
Dusky Flycatcher	Empidonax oberholseri	S5B
Dusky Grouse	Dendragapus obscurus	S4
Eared Grebe	Podiceps nigricollis	S5B
Eastern Kingbird	Tyrannus tyrannus	S5B
Evening Grosbeak	Coccothraustes vespertinus	S5
Flammulated Owl	Otus flammeolus	S3B
Fox Sparrow	Passerella iliaca	S5B
Gadwall	Anas strepera	S5B
Golden-crowned Kinglet	Regulus satrapa	S5
Golden Eagle	Aquila chrysaetos	S3
Grasshopper Sparrow	Ammodramus savannarum	S3B
Gray Catbird	Dumetella carolinensis	S5B
Gray Jay	Perisoreus canadensis	S5
Great Blue Heron	Ardea herodias	S3
Great Gray Owl	Strix nebulosa	<b>S</b> 3
Great Horned Owl	Bubo virginianus	S5
	1	

Green-winged Teal	Anas crecca	S5B
Harlequin Duck	Histrionicus histrionicus	S2B
Hairy Woodpecker	Picoides villosus	S5
Hammond's Flycatcher	Empidonax hammondii	S4B
Hermit Thrush	Catharus guttatus	S5B
Hooded Merganser	Lophodytes cucullatus	S4
Horned Grebe	Podiceps auritus	S3B
Horned Lark	Eremophila alpestris	S5
House Finch	Carpodacus mexicanus	S5
House Wren	Troglodytes aedon	S5B
Killdeer	Charadrius vociferus	S5B
Lazuli Bunting	Passerina amoena	S4B
Least Flycatcher	Empidonax minimus	S5B
Lesser Scaup	Aythya affinis	S5B
Lewis's Woodpecker	Melanerpes lewis	S2B
Lincoln's Sparrow	Melospiza lincolnii	S5B
Long-billed Curlew	Numenius americanus	S3B
Long-eared Owl	Asio otus	S5
MacGillivray's Warbler	Oporornis tolmiei	S5B
Mallard	Anas platyrhynchos	S5
Marsh Wren	Cistothorus palustris	S5B
Merlin	Falco columbarius	S4
Mountain Bluebird	Sialia currucoides	S5B
Mountain Chickadee	Poecile gambeli	S5
Mourning Dove	Zenaida macroura	S5B
Nashville Warbler	Vermivora ruficapilla	S5B
Northern Flicker	Colaptes auratus	S5
Northern Goshawk	Accipiter gentilis	S3
Northern Harrier	Circus cyaneus	S4B
Northern Pintail	Anas acuta	S5B
Northern Pygmy-Owl	Glaucidium gnoma	S4
Northern Rough-winged Swallow	Stelgidopteryx serripennis	S5B
Northern Saw-whet Owl	Aegolius acadicus	S4
Northern Shoveler	Anas clypeata	S5B
Northern Shrike	Lanius excubitor	S5N
Northern Waterthrush	Seiurus noveboracensis	S5B
Olive-sided Flycatcher	Contopus cooperi	S4B
Orange-crowned Warbler	Vermivora celata	S5B
Osprey	Pandion haliaetus	S5B
Ovenbird	Seiurus aurocapilla	S4B
Peregrine Falcon	Falco peregrinus	S3

Pied-billed Grebe	Podilymbus podiceps	S5B
Pileated Woodpecker	Dryocopus pileatus	S3
Pine Grosbeak	Pinicola enucleator	S5
Pine Siskin	Spinus pinus	S5
Prairie Falcon	Falco mexicanus	S4
Pygmy Nuthatch	Sitta pygmaea	S4
Red-breasted Nuthatch	Sitta canadensis	S5
Red Crossbill	Loxia curvirostra	S5
Red-eyed Vireo	Vireo olivaceus	S4B
Redhead	Aythya americana	S5B
Red-headed Woodpecker	Melanerpes erythrocephalus	S3B
Red-naped Sapsucker	Sphyrapicus nuchalis	S4B
Red-necked Grebe	Podiceps grisegena	S4B
Red-tailed Hawk	Buteo jamaicensis	S5B
Red-winged Blackbird	Agelaius phoeniceus	S5B
Ring-necked Duck	Aythya collaris	S5B
Rock Wren	Salpinctes obsoletus	S5B
Ross's Goose	Chen rossii	S4N
Rough-legged Hawk	Buteo lagopus	S5N
Ruby-crowned Kinglet	Regulus calendula	S5B
Rufous Hummingbird	Selasphorus rufus	S4B
Ruddy Duck	Oxyura jamaicensis	S5B
Ruffed Grouse	Bonasa umbellus	S4
Savannah Sparrow	Passerculus sandwichensis	S5B
Say's Phoebe	Sayornis saya	S5B
Sharp-tailed Grouse (Columbian)	Tympanuchus phasianellus columbianus	S1
Sharp-shinned Hawk	Accipiter striatus	S4B
Short-eared Owl	Asio flammeus	S4
Snow Bunting	Plectrophenax nivalis	S5N
Snow Goose	Chen caerulescens	S4N
Solitary Vireo	Vireo solitarius	SNR
Song Sparrow	Melospiza melodia	S5B
Sora	Porzana carolina	S5B
Spotted Sandpiper	Actitis macularius	S5B
Spotted Towhee	Pipilo maculatus	S5B
Spruce Grouse	Falcipennis canadensis	S4
Steller's Jay	Cyanocitta stelleri	S5
Swainson's Hawk	Buteo swainsoni	S4B
Swainson's Thrush	Catharus ustulatus	S5B
Townsend's Solitaire	Myadestes townsendi	S5
Townsend's Warbler	Dendroica townsendi	S5B

Trumpeter Swan Cygnus buccinator S3 Turkey Vulture Cathartes aura S4B Varied Thrush Izoreus naevius S5B Vaux's Swift Chaetura vauxi S4B Veery Catharus fiscescens S3B Vesper Sparrow Pooecetes gramineus S5B Violet-green Swallow Tachycineta thalassina S5B Warbling Vireo Vireo gilvus S5B Western Bluebird Sialia mexicana S4B Western Brober Aechmophorus occidentalis S4B Western Kingbird Tyrannus verticalis S5B Western Kingbird Tyrannus verticalis S5B Western Kingbird Tyrannus verticalis S5B Western Meadowlark Sturnella neglecta S5B Western Screech-Owl Megascops kennicottii S3S4 Western Screech-Owl Megascops kennicottii S3S4 Western Wood-Pewee Contopus sordidulus S5B White-breasted Nuthatch Sitta carolinensis S4 White-trailed Parimigan Lagopus leucura S3 White-trailed Parimigan Lagopus leucura S3 White-tailed Parimigan Lagopus leucura S3 White-throated Swift Aeronautes saxatalis S5B White-winged Crossbill Loxia leucoptera S4 Williamson's Sapsucker Sphyrapicus thyroideus S4B Willow Flycatcher Empidonax traillii S4B Wilson's Warbler Wilsonia pusilla S5B Winter Wren Troglodytes troglodytes S3 Wood Duck Aix sponsa S5B Yellow-breasted Chat Leteria virens S5B Yellow-breasted Chat Leteria virens S5B Yellow-headed Blackbird Xanthocephalus S5B Yellow-headed Blackbird Xanthocephalus S5B Yellow-headed Chat Leteria virens S5B Yellow-headed Blackbird Xanthocephalus S5B Yellow-headed Blackbird Xanthocephalus S5B Yellow-headed Chat Leteria virens S5B Yellow-headed Blackbird Xanthocephalus S5B Yellow-headed S6B Yellow-headed S6B S5B Yellow Warbler Dendroica petechia S5B S5B S6B S7B S8B S8B S8B S8B S8B S8B S8B S8B S8B S8	Tree Swallow	Tachycineta bicolor	S5B
Varied Thrush         Ixoreus naevius         S5B           Vaux's Swift         Chaetura vauxi         S4B           Veery         Catharus fuscescens         S3B           Vesper Sparrow         Pooecetes gramineus         S5B           Violet-green Swallow         Tachycineta thalassina         S5B           Warbling Vireo         Vireo gilvus         S5B           Western Bluebird         Sialia mexicana         S4B           Western Bluebird         Sialia mexicana         S4B           Western Grebe         Aechmophorus occidentalis         S4B           Western Grebe         Aechmophorus occidentalis         S4B           Western Meadowlark         Sturnella neglecta         S5B           Western Meadowlark         Sturnella negl	Trumpeter Swan	Cygnus buccinator	S3
Vaux's Swift     Chaetura vauxi     \$4B       Veery     Catharus fuscescens     \$3B       Vesper Sparrow     Pooecetes gramineus     \$5B       Violet-green Swallow     Tachycineta thalassina     \$5B       Warbling Vireo     Vireo gilvus     \$5B       Western Bluebird     Sialia mexicana     \$4B       Western Grebe     Aechmophorus occidentalis     \$4B       Western Kingbird     Tyrannus verticalis     \$5B       Western Kingbird     Tyrannus verticalis     \$5B       Western Meadowlark     Sturnella neglecta     \$5B       Western Meadowlark     Sturnella neglecta     \$5B       Western Screech-Owl     Megascops kennicottii     \$384       Western Tanager     Piranga ludoviciana     \$5B       Western Tanager     Piranga ludoviciana     \$5B       Western Wood-Pewee     Contopus sordidulus     \$5B       Western Wood-Pewee     Contopus sordidulus     \$5B       White-breasted Nuthatch     Sitta carolinensis     \$4       White-breasted Nuthatch     Sitta carolinensis     \$4       White-breasted Nuthatch     Sitta carolinensis     \$4       White-treasted Swift     Aeronautes saxatalis     \$5B       White-trialed Parmigan     Lagopus leucura     \$3       White-throated Swift	Turkey Vulture	Cathartes aura	S4B
Veery         Catharus fuscescens         S3B           Vesper Sparrow         Pooecetes gramineus         S5B           Violet-green Swallow         Tachycineta thalassina         S5B           Warbling Vireo         Vireo gilvus         S5B           Western Bluebird         Sialia mexicana         S4B           Western Grebe         Aechmophorus occidentalis         S4B           Western Grebe         Aechmophorus occidentalis         S4B           Western Kingbird         Tyramus verticalis         S5B           Western Meadowlark         Sturnella neglecta         S5B           Western Meadowlark         Sturnella neglecta         S5B           Western Screech-Owl         Megascops kennicottii         S384           Western Bluedowl         S5B         S5B           Western Screech-Owl         Megascops kennicottii         S38           Western Bluedowl         S5B         S5B           Western Screech-Owl         Megascops kennicottii         S38           White-order Supscess         <	Varied Thrush	Ixoreus naevius	S5B
Vesper Sparrow       Pooecetes gramineus       S5B         Violet-green Swallow       Tachycineta thalassina       S5B         Warbling Vireo       Vireo gilvus       S5B         Western Bluebird       Sialia mexicana       S4B         Western Grebe       Aechmophorus occidentalis       S4B         Western Kingbird       Tyrannus verticalis       S5B         Western Meadowlark       Sturnella neglecta       S5B         Western Meadowlark       Sturnella neglecta       S5B         Western Screech-Owl       Megascops kennicottii       S384         Western Tanager       Piranga ludoviciana       S5B         Western Wood-Pewee       Contopus sordidulus       S5B         Western Wood-Pewee       Contopus sordidulus       S5B         Wister-breasted Nuthatch       Sitta carolinensis       S4         White-breasted Nuthatch       Sitta carolinensis       S4         White-breasted Sparrow       Zonotrichia leucophrys       S5B         White-tailed Ptarmigan       Lagopus leucura       S3         White-tailed Ptarmigan       Lagopus leucura       S3         White-tailed Ptarmigan       Lagopus leucura       S4         Williamson's Sapsucker       Sphrapicus thyroideus       S4B	Vaux's Swift	Chaetura vauxi	S4B
Violet-green SwallowTachycineta thalassina\$5BWarbling VireoVireo gilvus\$5BWestern BluebirdSialia mexicana\$4BWestern GrebeAechmophorus occidentalis\$4BWestern KingbirdTyrannus verticalis\$5BWestern MeadowlarkSturnella neglecta\$5BWestern MeadowlarkSturnella neglecta\$5BWestern Screech-OwlMegascops kemicottii\$3354Western TanagerPiranga ludoviciana\$5BWestern Wood-PeweeContopus sordidulus\$5BWhite-breasted NuthatchSitta carolinensis\$4White-orowned SparrowZonotrichia leucophrys\$5BWhite-tailed PtarmiganLagopus leucura\$3White-throated SwiftAeronautes saxatalis\$5BWhite-winged CrossbillLoxia leucoptera\$4Williamson's SapsuckerSphyrapicus thyroideus\$4BWillow FlycatcherEmpidonax traillii\$4BWilson's PhalaropePhalaropus tricolor\$4BWilson's WarblerWilsonia pusilla\$5BWinter WrenTroglodytes troglodytes\$3Wood DuckAix sponsa\$5BYellow-breasted ChatIcteria virens\$5BYellow-breasted ChatIcteria virens\$5BYellow-headed BlackbirdXanthocephalus xanthocephalus\$5BYellow-headed BlackbirdXanthocephalus xanthocephalus\$5BYellow-headed BlackbirdXanthocephalus xanthocephalus\$5BYellow-headed BlackbirdXanthoce	Veery	Catharus fuscescens	S3B
Warbling Vireo         Vireo gilvus         S5B           Western Bluebird         Sialia mexicana         S4B           Western Grebe         Aechmophorus occidentalis         S4B           Western Kingbird         Tyrannus verticalis         S5B           Western Roadowlark         Sturnella neglecta         S5B           Western Roadowlark         Stall         S5B           Western Roadowlark         Stall         S5B           White-of Parker         Contopus sordidul	Vesper Sparrow	Pooecetes gramineus	S5B
Western BluebirdSialia mexicana\$4BWestern GrebeAechmophorus occidentalis\$4BWestern KingbirdTyrannus verticalis\$5BWestern MeadowlarkSturnella neglecta\$5BWestern Screech-OwlMegascops kennicottii\$3\$4Western TanagerPiranga ludoviciana\$5BWestern Wood-PeweeContopus sordidulus\$5BWhite-breasted NuthatchSitta carolinensis\$4White-crowned SparrowZonotrichia leucophrys\$5BWhite-trailed PtarmiganLagopus leucura\$3White-throated SwiftAeronautes saxatalis\$5BWhite-winged CrossbillLoxia leucoptera\$4Willamson's SapsuckerSphyrapicus thyroideus\$4BWillow FlycatcherEmpidonax traillii\$4BWilson's PhalaropePhalaropus tricolor\$4BWilson's WarblerWilsonia pusilla\$5BWinter WrenTroglodytes troglodytes\$3Wood DuckAix sponsa\$5BYellow-breasted ChatIcteria virens\$5BYellow-breaded BlackbirdXanthocephalus xanthocephalus\$5BYellow-rumped WarblerDendroica coronata\$5BYellow WarblerDendroica petechia\$5BDendroica petechia\$5BAmerican MinkMustela vison\$5BadgerTaxidea taxus\$4BadgerTaxidea taxus\$4BeaverCastor canadensis\$5Big Brown BatEptesicus fuscus\$4Black Bear </td <td>Violet-green Swallow</td> <td>Tachycineta thalassina</td> <td>S5B</td>	Violet-green Swallow	Tachycineta thalassina	S5B
Western GrebeAechmophorus occidentalisS4BWestern KingbirdTyrannus verticalisS5BWestern MeadowlarkSturnella neglectaS5BWestern Screech-OwlMegascops kennicottiiS3S4Western TanagerPiranga ludovicianaS5BWestern Wood-PeweeContopus sordidulusS5BWhite-breasted NuthatchSitta carolinensisS4White-crowned SparrowZonotrichia leucophrysS5BWhite-throated SwiftAeronautes saxatalisS5BWhite-throated SwiftAeronautes saxatalisS5BWhite-winged CrossbillLoxia leucopteraS4Willamson's SapsuckerSphyrapicus thyroideusS4BWillow FlycatcherEmpidonax trailliiS4BWilson's PhalaropePhalaropus tricolorS4BWilson's WarblerWilsonia pusillaS5BWinter WrenTroglodytes troglodytesS3Wood DuckAix sponsaS5BYellow-breasted ChatIcteria virensS5BYellow-rumped WarblerDendroica coronataS5BYellow-rumped WarblerDendroica coronataS5BYellow WarblerDendroica petechiaS5BMannals - 64 SpeciesAmerican MinkMustela visonS5BadgerTaxidea taxusS4BeaverCastor canadensisS5Big Brown BatEptesicus fuscusS4Black BearUrsus americanusS5Bushy-tailed WoodratNeotoma cinereaS5California Myotis<	Warbling Vireo	Vireo gilvus	S5B
Western KingbirdTyrannus verticalisS5BWestern MeadowlarkSturnella neglectaS5BWestern Screech-OwlMegascops kennicottiiS3S4Western TanagerPiranga ludovicianaS5BWestern Wood-PeweeContopus sordidulusS5BWhite-breasted NuthatchSitta carolinensisS4White-crowned SparrowZonotrichia leucophrysS5BWhite-throated SwiftAeronautes saxatalisS5BWhite-winged CrossbillLoxia leucopteraS4Williamson's SapsuckerSphyrapicus thyroideusS4BWillow FlycatcherEmpidonax trailliiS4BWilson's PhalaropePhalaropus tricolorS4BWilson's WarblerWilsonia pusillaS5BWood DuckAix sponsaS5BYellow-breasted ChatIcteria virensS5BYellow-breaded BlackbirdXanthocephalus xanthocephalusS5BYellow-rumped WarblerDendroica coronataS5BYellow WarblerDendroica coronataS5BYellow WarblerDendroica petechiaS5BAmerican MinkMustela visonS5BadgerTaxidea taxusS4BeaverCastor canadensisS5Big Brown BatEptesicus fuscusS4Black BearUrsus americanusS5Bushy-tailed WoodratNeotoma cinereaS5California MyotisMyotis californicusS4	Western Bluebird	Sialia mexicana	S4B
Western MeadowlarkSturnella neglectaS5BWestern Screech-OwlMegascops kennicottiiS3S4Western TanagerPiranga ludovicianaS5BWestern Wood-PeweeContopus sordidulusS5BWhite-breasted NuthatchSitta carolinensisS4White-crowned SparrowZonotrichia leucophrysS5BWhite-tailed PtarmiganLagopus leucuraS3White-winged CrossbillAeronautes saxatalisS5BWilliamson's SapsuckerSphyrapicus thyroideusS4BWillow FlycatcherEmpidonax trailliiS4BWilson's PhalaropePhalaropus tricolorS4BWilson's WarblerWilsonia pusillaS5BWinter WrenTroglodytes troglodytesS3Wood DuckAix sponsaS5BYellow-breasted ChatIcteria virensS5BYellow-headed BlackbirdXanthocephalus xanthocephalusS5BYellow-rumped WarblerDendroica coronataS5BYellow WarblerDendroica coronataS5BYellow WarblerDendroica petechiaS5BAmerican MinkMustela visonS5BadgerTaxidea taxusS4BeaverCastor canadensisS5Big Brown BatEptesicus fuscusS4Black BearUrsus americanusS5Bushy-tailed WoodratNeotoma cinereaS5California MyotisMyotis californicusS4	Western Grebe	Aechmophorus occidentalis	S4B
Western Screech-OwlMegascops kennicottii\$3\$4Western TanagerPiranga ludoviciana\$5BWestern Wood-PeweeContopus sordidulus\$5BWhite-breasted NuthatchSitta carolinensis\$4White-crowned SparrowZonotrichia leucophrys\$5BWhite-tailed PtarmiganLagopus leucura\$3White-winged CrossbillLoxia leucoptera\$4Williamson's SapsuckerSphyrapicus thyroideus\$4BWillow FlycatcherEmpidonax traillii\$4BWilson's PhalaropePhalaropus tricolor\$4BWilson's WarblerWilsonia pusilla\$5BWinter WrenTroglodytes troglodytes\$3Wood DuckAix sponsa\$5BYellow-breasted ChatIcteria virens\$5BYellow-headed BlackbirdXanthocephalus xanthocephalus\$5BYellow-rumped WarblerDendroica coronata\$5BYellow WarblerDendroica petechia\$5BMammals - 64 SpeciesAmerican MinkMustela vison\$5BadgerTaxidea taxus\$4BeaverCastor canadensis\$5Big Brown BatEptesicus fuscus\$4Black BearUrsus americanus\$5BobcatLynx rufus\$5Bushy-tailed WoodratNeotoma cinerea\$5California MyotisMyotis californicus\$4	Western Kingbird	Tyrannus verticalis	S5B
Western Tanager Piranga ludoviciana S5B Western Wood-Pewee Contopus sordidulus S5B White-breasted Nuthatch Sitta carolinensis S4 White-crowned Sparrow Zonotrichia leucophrys S5B White-tailed Ptarmigan Lagopus leucura S3 White-throated Swift Aeronautes saxatalis S5B White-winged Crossbill Loxia leucoptera S4 Williamson's Sapsucker Sphyrapicus thyroideus S4B Willow Flycatcher Empidonax traillii S4B Wilson's Phalarope Phalaropus tricolor S4B Wilson's Warbler Wilsonia pusilla S5B Winter Wren Troglodytes troglodytes S3 Wood Duck Aix sponsa S5B Yellow-breasted Chat Icteria virens S5B Yellow-headed Blackbird Xanthocephalus xanthocephalus S5B Yellow-umped Warbler Dendroica coronata S5B Yellow Warbler Dendroica petechia S5B Wammals - 64 Species  Mammals - 64 Species  Mammals - G4 Species S5 Big Brown Bat Eptesicus fuscus S4 Black Bear Ursus americanus S5 Bushy-tailed Woodrat Neotoma cinerea S5 California Myotis Myotis californicus S4	Western Meadowlark	Sturnella neglecta	S5B
Western Wood-PeweeContopus sordidulus\$5BWhite-breasted NuthatchSitta carolinensis\$4White-crowned SparrowZonotrichia leucophrys\$5BWhite-tailed PtarmiganLagopus leucura\$3White-throated SwiftAeronautes saxatalis\$5BWhite-winged CrossbillLoxia leucoptera\$4Williamson's SapsuckerSphyrapicus thyroideus\$4BWillow FlycatcherEmpidonax traillii\$4BWilson's PhalaropePhalaropus tricolor\$4BWilson's WarblerWilsonia pusilla\$5BWinter WrenTroglodytes troglodytes\$3Wood DuckAix sponsa\$5BYellow-breasted ChatIcteria virens\$5BYellow-headed BlackbirdXanthocephalus xanthocephalus\$5BYellow-rumped WarblerDendroica coronata\$5BYellow WarblerDendroica petechia\$5BMammals - 64 SpeciesAmerican MinkMustela vison\$5BadgerTaxidea taxus\$4BeaverCastor canadensis\$5Big Brown BatEptesicus fuscus\$4Black BearUrsus americanus\$5BobcatLynx rufus\$5Bushy-tailed WoodratNeotoma cinerea\$5California MyotisMyotis californicus\$4	Western Screech-Owl	Megascops kennicottii	S3S4
White-breasted NuthatchSitta carolinensis\$4White-crowned SparrowZonotrichia leucophrys\$5BWhite-tailed PtarmiganLagopus leucura\$3White-throated SwiftAeronautes saxatalis\$5BWhite-winged CrossbillLoxia leucoptera\$4Williamson's SapsuckerSphyrapicus thyroideus\$4BWillow FlycatcherEmpidonax traillii\$4BWilson's PhalaropePhalaropus tricolor\$4BWilson's WarblerWilsonia pusilla\$5BWinter WrenTroglodytes troglodytes\$3Wood DuckAix sponsa\$5BYellow-breasted ChatIcteria virens\$5BYellow-headed BlackbirdXanthocephalus xanthocephalus\$5BYellow-rumped WarblerDendroica coronata\$5BYellow WarblerDendroica petechia\$5BMammals - 64 SpeciesAmerican MinkMustela vison\$5BadgerTaxidea taxus\$4BeaverCastor canadensis\$5Big Brown BatEptesicus fuscus\$4Black BearUrsus americanus\$5BobcatLynx rufus\$5Bushy-tailed WoodratNeotoma cinerea\$5California MyotisMyotis californicus\$4	Western Tanager	Piranga ludoviciana	S5B
White-crowned SparrowZonotrichia leucophrys\$5BWhite-tailed PtarmiganLagopus leucura\$3White-throated SwiftAeronautes saxatalis\$5BWhite-winged CrossbillLoxia leucoptera\$4Williamson's SapsuckerSphyrapicus thyroideus\$4BWillow FlycatcherEmpidonax traillii\$4BWilson's PhalaropePhalaropus tricolor\$4BWilson's WarblerWilsonia pusilla\$5BWinter WrenTroglodytes troglodytes\$3Wood DuckAix sponsa\$5BYellow-breasted ChatIcteria virens\$5BYellow-headed BlackbirdXanthocephalus xanthocephalus\$5BYellow-rumped WarblerDendroica coronata\$5BYellow WarblerDendroica petechia\$5BYellow WarblerDendroica petechia\$5BMammals - 64 SpeciesAmerican MinkMustela vison\$5BadgerTaxidea taxus\$4BeaverCastor canadensis\$5Big Brown BatEptesicus fuscus\$4Black BearUrsus americanus\$5BobcatLynx rufus\$5Bushy-tailed WoodratNeotoma cinerea\$5California MyotisMyotis californicus\$4	Western Wood-Pewee	Contopus sordidulus	S5B
White-tailed PtarmiganLagopus leucura\$3White-throated SwiftAeronautes saxatalis\$5BWhite-winged CrossbillLoxia leucoptera\$4Williamson's SapsuckerSphyrapicus thyroideus\$4BWillow FlycatcherEmpidonax traillii\$4BWilson's PhalaropePhalaropus tricolor\$4BWilson's WarblerWilsonia pusilla\$5BWinter WrenTroglodytes troglodytes\$3Wood DuckAix sponsa\$5BYellow-breasted ChatIcteria virens\$5BYellow-headed BlackbirdXanthocephalus xanthocephalus\$5BYellow-rumped WarblerDendroica coronata\$5BYellow WarblerDendroica petechia\$5BYellow WarblerDendroica petechia\$5BBadgerTaxidea taxus\$4BeaverCastor canadensis\$5Big Brown BatEptesicus fuscus\$4Black BearUrsus americanus\$5BobcatLynx rufus\$5Bushy-tailed WoodratNeotoma cinerea\$5California MyotisMyotis californicus\$4	White-breasted Nuthatch	Sitta carolinensis	S4
White-throated Swift Aeronautes saxatalis S5B White-winged Crossbill Loxia leucoptera S4 Williamson's Sapsucker Sphyrapicus thyroideus S4B Willow Flycatcher Empidonax traillii S4B Wilson's Phalarope Phalaropus tricolor S4B Wilson's Warbler Wilsonia pusilla S5B Winter Wren Troglodytes troglodytes S3 Wood Duck Aix sponsa S5B Yellow-breasted Chat Icteria virens S5B Yellow-headed Blackbird Xanthocephalus xanthocephalus S5B Yellow-rumped Warbler Dendroica coronata S5B Yellow Warbler Dendroica petechia S5B  Mammals - 64 Species  Mammals - 64 Species  American Mink Mustela vison S5 Badger Taxidea taxus S4 Beaver Castor canadensis S5 Big Brown Bat Eptesicus fuscus S4 Black Bear Ursus americanus S5 Bobcat Lynx rufus S5 Bushy-tailed Woodrat Neotoma cinerea S5 California Myotis Myotis californicus S4B	White-crowned Sparrow	Zonotrichia leucophrys	S5B
White-winged CrossbillLoxia leucoptera\$4Williamson's SapsuckerSphyrapicus thyroideus\$4BWillow FlycatcherEmpidonax traillii\$4BWilson's PhalaropePhalaropus tricolor\$4BWilson's WarblerWilsonia pusilla\$5BWinter WrenTroglodytes troglodytes\$3Wood DuckAix sponsa\$5BYellow-breasted ChatIcteria virens\$5BYellow-headed BlackbirdXanthocephalus xanthocephalus\$5BYellow-rumped WarblerDendroica coronata\$5BYellow WarblerDendroica petechia\$5BMammals - 64 SpeciesAmerican MinkMustela vison\$5BadgerTaxidea taxus\$4BeaverCastor canadensis\$5Big Brown BatEptesicus fuscus\$4Black BearUrsus americanus\$5BobcatLynx rufus\$5Bushy-tailed WoodratNeotoma cinerea\$5California MyotisMyotis californicus\$4	White-tailed Ptarmigan	Lagopus leucura	S3
Williamson's SapsuckerSphyrapicus thyroideusS4BWillow FlycatcherEmpidonax trailliiS4BWilson's PhalaropePhalaropus tricolorS4BWilson's WarblerWilsonia pusillaS5BWinter WrenTroglodytes troglodytesS3Wood DuckAix sponsaS5BYellow-breasted ChatIcteria virensS5BYellow-headed BlackbirdXanthocephalus xanthocephalusS5BYellow-rumped WarblerDendroica coronataS5BYellow WarblerDendroica petechiaS5BMammals - 64 SpeciesAmerican MinkMustela visonS5BadgerTaxidea taxusS4BeaverCastor canadensisS5Big Brown BatEptesicus fuscusS4Black BearUrsus americanusS5BobcatLynx rufusS5Bushy-tailed WoodratNeotoma cinereaS5California MyotisMyotis californicusS4	White-throated Swift	Aeronautes saxatalis	S5B
Willow FlycatcherEmpidonax traillii\$4BWilson's PhalaropePhalaropus tricolor\$4BWilson's WarblerWilsonia pusilla\$5BWinter WrenTroglodytes troglodytes\$3Wood DuckAix sponsa\$5BYellow-breasted ChatIcteria virens\$5BYellow-headed BlackbirdXanthocephalus xanthocephalus\$5BYellow-rumped WarblerDendroica coronata\$5BYellow WarblerDendroica petechia\$5BMammals - 64 SpeciesAmerican MinkMustela vison\$5BadgerTaxidea taxus\$4BeaverCastor canadensis\$5Big Brown BatEptesicus fuscus\$4Black BearUrsus americanus\$5BobcatLynx rufus\$5Bushy-tailed WoodratNeotoma cinerea\$5California MyotisMyotis californicus\$4	White-winged Crossbill	Loxia leucoptera	S4
Wilson's PhalaropePhalaropus tricolor\$4BWilson's WarblerWilsonia pusilla\$5BWinter WrenTroglodytes troglodytes\$3Wood DuckAix sponsa\$5BYellow-breasted ChatIcteria virens\$5BYellow-headed BlackbirdXanthocephalus xanthocephalus\$5BYellow-rumped WarblerDendroica coronata\$5BYellow WarblerDendroica petechia\$5BMammals - 64 SpeciesAmerican MinkMustela vison\$5BadgerTaxidea taxus\$4BeaverCastor canadensis\$5Big Brown BatEptesicus fuscus\$4Black BearUrsus americanus\$5BobcatLynx rufus\$5Bushy-tailed WoodratNeotoma cinerea\$5California MyotisMyotis californicus\$4	Williamson's Sapsucker	Sphyrapicus thyroideus	S4B
Wilson's WarblerWilsonia pusillaS5BWinter WrenTroglodytes troglodytesS3Wood DuckAix sponsaS5BYellow-breasted ChatIcteria virensS5BYellow-headed BlackbirdXanthocephalus xanthocephalusS5BYellow-rumped WarblerDendroica coronataS5BYellow WarblerDendroica petechiaS5BMammals - 64 SpeciesAmerican MinkMustela visonS5BadgerTaxidea taxusS4BeaverCastor canadensisS5Big Brown BatEptesicus fuscusS4Black BearUrsus americanusS5BobcatLynx rufusS5Bushy-tailed WoodratNeotoma cinereaS5California MyotisMyotis californicusS4	Willow Flycatcher	Empidonax traillii	S4B
Winter Wren  Troglodytes troglodytes  S3  Wood Duck  Aix sponsa  S5B  Yellow-breasted Chat  Icteria virens  S5B  Yellow-headed Blackbird  Xanthocephalus xanthocephalus  S5B  Yellow-rumped Warbler  Dendroica coronata  S5B  Yellow Warbler  Dendroica petechia  S5B  Mammals - 64 Species  American Mink  Mustela vison  S5  Badger  Taxidea taxus  S4  Beaver  Castor canadensis  S5  Big Brown Bat  Eptesicus fuscus  S4  Black Bear  Ursus americanus  S5  Bushy-tailed Woodrat  Neotoma cinerea  S4  Myotis californicus  S4	Wilson's Phalarope	Phalaropus tricolor	S4B
Wood DuckAix sponsaS5BYellow-breasted ChatIcteria virensS5BYellow-headed BlackbirdXanthocephalus xanthocephalusS5BYellow-rumped WarblerDendroica coronataS5BYellow WarblerDendroica petechiaS5BMammals - 64 SpeciesAmerican MinkMustela visonS5BadgerTaxidea taxusS4BeaverCastor canadensisS5Big Brown BatEptesicus fuscusS4Black BearUrsus americanusS5BobcatLynx rufusS5Bushy-tailed WoodratNeotoma cinereaS5California MyotisMyotis californicusS4	Wilson's Warbler	Wilsonia pusilla	S5B
Yellow-breasted Chat  Icteria virens  Yellow-headed Blackbird  Xanthocephalus xanthocephalus  S5B  Yellow-rumped Warbler  Dendroica coronata  S5B  Yellow Warbler  Dendroica petechia  S5B  Mammals - 64 Species  American Mink  Mustela vison  S5  Badger  Taxidea taxus  S4  Beaver  Castor canadensis  S5  Big Brown Bat  Eptesicus fuscus  S4  Black Bear  Ursus americanus  S5  Bushy-tailed Woodrat  Neotoma cinerea  S5  California Myotis  Myotis californicus	Winter Wren	Troglodytes troglodytes	S3
Yellow-headed BlackbirdXanthocephalus xanthocephalusS5BYellow-rumped WarblerDendroica coronataS5BYellow WarblerDendroica petechiaS5BMammals - 64 SpeciesAmerican MinkMustela visonS5BadgerTaxidea taxusS4BeaverCastor canadensisS5Big Brown BatEptesicus fuscusS4Black BearUrsus americanusS5BobcatLynx rufusS5Bushy-tailed WoodratNeotoma cinereaS5California MyotisMyotis californicusS4	Wood Duck	Aix sponsa	S5B
Yellow-rumped WarblerDendroica coronata\$5BYellow WarblerDendroica petechia\$5BMammals - 64 SpeciesAmerican MinkMustela vison\$5BadgerTaxidea taxus\$4BeaverCastor canadensis\$5Big Brown BatEptesicus fuscus\$4Black BearUrsus americanus\$5BobcatLynx rufus\$5Bushy-tailed WoodratNeotoma cinerea\$5California MyotisMyotis californicus\$4	Yellow-breasted Chat	Icteria virens	S5B
Yellow Warbler  **Dendroica petechia**  **Mammals - 64 Species**  American Mink  **Mustela vison**  **S5**  Badger  **Taxidea taxus  **S4**  Beaver  **Castor canadensis  **S5**  Big Brown Bat  **Eptesicus fuscus  **S4**  Black Bear  **Ursus americanus  **S5**  Bobcat  **Lynx rufus  **S5**  Bushy-tailed Woodrat  **Neotoma cinerea  **S5**  California Myotis  **Myotis californicus  **S5**  **Myotis californicus  **S5**  **S4**  **A9**  **S5**  **A9**  **Myotis californicus  **S5**  **S4**  **A9**  **S5**  **A9**  **Myotis californicus  **S5**  **S4**  **A9**  **S5**  **California Myotis  **Myotis californicus  **S5**  **A9**  **A9**	Yellow-headed Blackbird	Xanthocephalus xanthocephalus	S5B
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American MinkMustela visonS5BadgerTaxidea taxusS4BeaverCastor canadensisS5Big Brown BatEptesicus fuscusS4Black BearUrsus americanusS5BobcatLynx rufusS5Bushy-tailed WoodratNeotoma cinereaS5California MyotisMyotis californicusS4	Yellow Warbler	Dendroica petechia	S5B
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Big Brown BatEptesicus fuscus\$4Black BearUrsus americanus\$5BobcatLynx rufus\$5Bushy-tailed WoodratNeotoma cinerea\$5California MyotisMyotis californicus\$4	Badger	Taxidea taxus	S4
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BobcatLynx rufusS5Bushy-tailed WoodratNeotoma cinereaS5California MyotisMyotis californicusS4	Big Brown Bat	Eptesicus fuscus	S4
Bushy-tailed Woodrat  Neotoma cinerea  S5  California Myotis  Myotis californicus  S4	Black Bear	Ursus americanus	S5
California Myotis Myotis californicus S4	Bobcat	Lynx rufus	S5
	Bushy-tailed Woodrat	Neotoma cinerea	S5
Canada Lynx Lynx canadensis S3	California Myotis	Myotis californicus	S4
	Canada Lynx	Lynx canadensis	<b>S</b> 3

Columbian Ground Squirrel	Spermophilus columbianus	S5
Coyote	Canis latrans	S5
Deer Mouse	Peromyscus maniculatus	S5
Dusky or Montane Shrew	Sorex monticolus	S5
Elk or Wapiti	Cervus canadensis	S5
Fisher	Martes pennanti	S3
Fringed Myotis	Myotis thysanodes	S3
Golden-mantled Ground Squirrel	Spermophilus lateralis	S4
Gray Wolf	Canis lupus	S4
Grizzly Bear	Ursus arctos	S2S3
Heather Vole	Phenacomys intermedius	S4
Hoary Bat	Lasiurus cinereus	S3
Hoary Marmot	Marmota caligata	S3S4
Little Brown Myotis	Myotis lucifugus	S4
Long-eared Myotis	Myotis evotis	S4
Long-legged Myotis	Myotis volans	S4
Long-tailed Vole	Microtus longicaudus	S4
Long-tailed Weasel	Mustela frenata	S5
Marten	Martes americana	S4
Masked Shrew	Sorex cinereus	S5
Meadow Vole	Microtus pennsylvanicus	S5
Montane Vole	Microtus montanus	S5
Moose	Alces americanus	S5
Mountain Cottontail	Sylvilagus nuttallii	S4
Mountain Goat	Oreamnos americanus	S4
Mountain Lion	Puma concolor	S4
Mule Deer	Odocoileus hemionus	S5
Muskrat	Ondatra zibethicus	S5
Northern Bog Lemming	Synaptomys borealis	S2
Northern Flying Squirrel	Glaucomys sabrinus	S4
Northern Pocket Gopher	Thomomys talpoides	S5
Northern River Otter	Lontra canadensis	S4
Pika	Ochotona princeps	S4
Porcupine	Erethizon dorsatum	S4
Raccoon	Procyon lotor	S5
Red Fox	Vulpes vulpes	S5
Red Squirrel	Tamiasciurus hudsonicus	S5
Red-tailed Chipmunk	Tamias ruficaudus	S4
Short-tailed Weasel	Mustela erminea	S5
Silver-haired Bat	Lasionycteris noctivagans	S4
Snowshoe Hare	Lepus americanus	S4

Southern Red-backed Vole	Myodes gapperi	S4
Striped Skunk	Mephitis mephitis	S5
Townsend's Big-eared Bat	Corynorhinus townsendii	S2
Vagrant Shrew	Sorex vagrans	S4
Water Shrew	Sorex palustris	S4
Water Vole	Microtus richardsoni	S4
Western Jumping Mouse	Zapus princeps	S4
Western Small-footed Myotis	Myotis ciliolabrum	S4
White-tailed Deer	Odocoileus virginianus	S5
White-tailed Jack Rabbit	Lepus townsendii	S4
Wolverine	Gulo gulo	S3
Yellow-bellied Marmot	Marmota flaviventris	S4
Yellow-pine Chipmunk	Tamias amoenus	S5
Yuma Myotis	Myotis yumanensis	S3S4
Re	eptiles - 9 Species	
Common Gartersnake	Thamnophis sirtalis	S4
Eastern Racer	Coluber constrictor	S5
Gophersnake	Pituophis catenifer	S5
Northern Alligator Lizard	Elgaria coerulea	S3
Painted Turtle	Chrysemys picta	S4
Prairie Rattlesnake	Crotalus viridis	S4
Rubber Boa	Charina bottae	S4
Terrestrial Gartersnake	Thamnophis elegans	S5
Western Skink	Eumeces skiltonianus	S3

# **APPENDIX B. Marshall WMA Species of Concern**

		a o a	CFWCS	
Common Name	Habitat	SOC	Tier	Comments
	1	hibian (1		T
Western Toad	Wetlands, lakes,	SOC	1	Suitable aquatic and upland
Bufo boreas	floodplain pools			habitats for this species.
		rds (21)		
American Bittern Botaurus lentiginosus	Wetlands	SOC	2	Found in wetlands along the Clearwater River.
Bald Eagle Haliaeetus leucocephalus	Riparian forests	SOC	1	Nests at Lake Alva. Uses the Clearwater River and other lakes for foraging. Potential winter roosting sites in conifer forest stands.
Black Swift Cypseloides niger	Cliffs, waterfalls, forages over wetland and riparian habitats	SOC	2	Possible foraging habitat in area.
Black-backed Woodpecker Picoides articus	Conifer forest burns	SOC	1	Found in burned forest nearby, will use the project area after fire.
Boreal Chickadee Poecile gambeli	Spruce fir forest	SOC	2	Found in low numbers in the Seeley-Swan valley.
Cassin's Finch Carpodacus cassinii	Conifer Forest	SOC	2	Verified near area during bird point counts.
Clark's Nutcracker Nucifraga columbiana	Conifer forests	SOC	3	Uses conifer forests in the area, newly-added to the Montana SOC list.
Common Loon Gavia immer	Mountain lakes with emergent vegetation	SOC	1	Lake Marshall used for foraging, Lakes Alva and Inez used for nesting.
Flammulated Owl Otus flammeolus	Conifer forests	SOC	1	Uses conifer forests in the area for nesting and foraging.
Golden Eagle Aquila chrysaetos	Cliffs, open forests, grasslands, subalpine	SOC	2	Suitable nesting and foraging habitat, not verified in area.
Great Blue Heron Ardea herodias	Wetlands, riparian	SOC	3	Nesting rookery at Lake Inez, foraging habitat in area

Common Name	Habitat	SOC	CFWCS Tier	Comments
Great Gray Owl	Conifer forests	SOC	1	Species documented on the
Strix nebulosa				project area, nearest documented
				nest is 13 miles NE.
Hooded Merganser	Riparian forests	PSOC	2	Found along Clearwater River
Lophodytes cucullatus				-
Northern Goshawk	Mixed conifer	SOC	2	Uses conifer forests in the area
Accipiter gentiles	forest			for nesting and foraging.
Olive-sided Flycatcher	Early seral		1	Documented in suitable habitat
Contopus cooperi	forest/shrub			throughout the area.
	patches, burned			
	forest			
Peregrine Falcon	Cliffs (nesting),	SOC	2	Riparian and wetland habitats
Falco peregrinus	riparian forests &			potentially used for foraging by
	wetlands (foraging)	202		migrating birds.
Pileated Woodpecker	Conifer forests with	SOC	2	Verified on the area, suitable
Dryocopus pileatus	large trees	000	4	habitat.
Trumpeter Swan	Shallow lakes with	SOC	1	Reintroduction programs in
Cygnus buccinator	submerged and			nearby Mission and Blackfoot
	emergent			Valleys, habitats for this species
	vegetation and low			found primarily along the
Voor	disturbance levels.	SOC	2	Clearwater River.
Veery Catharus fuscscens	Riparian	SOC	2	Found along the Clearwater River.
Western Screech-Owl	Riparian forests	PSOC	3	Potential habitat, not verified.
Megascops kennicotii	Kiparian forests	1300	3	1 otentiai naoitat, not vermed.
White-tailed Ptarmigan	Alpine	SOC	2	Present in Swan Mountains and
Lagopus leucura	Tupine	boc	2	probably present in Mission
Lugopus tenentu				mountains.
	F	<i>Tish</i> (2)		1110 0111111111111111111111111111111111
Bull Trout	Mountain streams,	SOC	1	Project area is the key spawning
Salvelinus confluentus	rivers, lakes			and rearing area for adfluvial
				population in Clearwater
				drainage.
Westslope Cutthroat	Mountain streams,	SOC	1	Abundant populations in project
Trout	rivers, lakes			area with both stream-resident
Oncorhynchus clarkii				and migratory components, and
lewisi				high genetic purity.
		mals (12		
Canada Lynx	Subalpine conifer	SOC	1	The Clearwater Lands Project,
Lynx Canadensis	forests			and the project parcel in
				particular, contains some of the
				highest quality, currently
				unprotected, Canada lynx habitat
Fisher	Mixed conifer	SOC	2	in the western US  Fisher are resident within the
	forests	SOC		
Martes pennanti		200	2	proposed WMA.
Fringed Myotis  Myotis thysanodas	Riparian and dry mixed conifer	SOC	2	Potential habitat, but insufficient
Myotis thysanodes	mixed confler			surveys to determine presence or

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